



ENGINEERING TECTONICS, P.A.
ENGINEERS • GEOLOGISTS • HYDROLOGISTS

1720 Vargrave Street, Winston-Salem, NC 27107 (919) 724-6994

RECEIVED
N.C. Dept. of EHNR

FEB 16 1993

Winston-Salem
Regional Office

February 16, 1993

Ms. Sherry Knight, Supervisor
Groundwater Section, Winston-Salem Regional Office
North Carolina Division of Environmental Management
North Carolina Department of Environment, Health and Natural Resources
8025 North Point Blvd., Suite 100
Winston-Salem, N.C. 27106

Dear Ms. Knight:

Enclosed please find the tank closure report for the Martin Motors Lines site, located at 3045 Indiana Avenue in Winston-Salem, NC. Four tanks were removed from the site; initial soil analyses indicated a release below two 550 gallon gasoline tanks that have reportedly been out of service for about 30 years. A subsequent soil boring confirmed that the gasoline was not present at a depth of 15 ft. below ground surface. Following confirmation of the release by laboratory analyses, contaminated soils were removed from the excavation and deeper soil samples were collected. Analyses of these samples indicated that contaminated soils had been successfully removed from the location of the incident. Based on this evidence, we request that the site be considered for clean closure.

Based on the assertion of a spokesman for Martin Motor Lines that the two 550 gallon USTs have been unused for about 30 years, (e.g., removed from service prior to 1974), it appears that this incident should fall under the NC State Non-Commercial Trust Fund program. Assuming all other qualifications are met, a package of expenses relative to the activities related in this report will be forthcoming.

If you have any questions regarding this project, please call.

Sincerely,

ENGINEERING TECTONICS, P.A.

Tim Binkley, P.G.
Senior Geologist

RECEIVED
N.C. Dept. of EHNR

FEB 16 1993

Winston-Salem
Regional Office

TANK CLOSURE ASSESSMENT

**Martin Motor Lines * 3045 Indiana Avenue
Winston-Salem, North Carolina**

ENGINEERING TECTONICS, P.A.

Winston-Salem, North Carolina

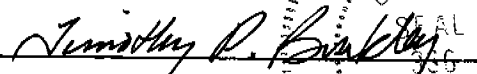
February, 1993

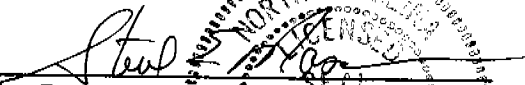
Certification

I hereby certify this 16th day of February, 1993, that this report was prepared by me or under my direct supervision and that to the best of my knowledge all information contained herein is true and accurate.

RECEIVED
N.C. Dept. of EHNr

FEB 16 1993
Winston-Salem
Regional Office


by Timothy P. Binkley, P.G.
Senior Geologist


by Steve E. Mason, P.G.
Principal Hydrogeologist

Introduction

On December 18, 1992, Mr. Richard McClure of M&M Pump and Tank Services, Inc. (M&M), located in Lewisville, NC, notified the Groundwater Section of the Winston-Salem Regional Office (WSRO) of the Division of Environmental Management (DEM) of Martin Motor Lines' intent to close one 10,000 gallon gasoline underground storage tank (UST), two 550 gallon USTs, and one 2,000 gallon diesel UST at the 3045 Indiana Avenue facility (Figure 1). The tanks were removed on January 19, 1993, by M&M; Engineering Tectonics, P.A. (ET) was retained to collect soil samples in the excavations and to perform the closure assessment. A copy of the Notice of Intent to Close, dated December 18, 1992, is located in Appendix I.

During excavation, the ET technician noted a gasoline odor in the excavation of the smaller gasoline tanks; however, no wetness or staining was noted. A spokesperson for Martin Motor Lines indicated that the gasoline tanks had not been used for nearly thirty years, and that, during that time, no product was stored in the smaller tanks.

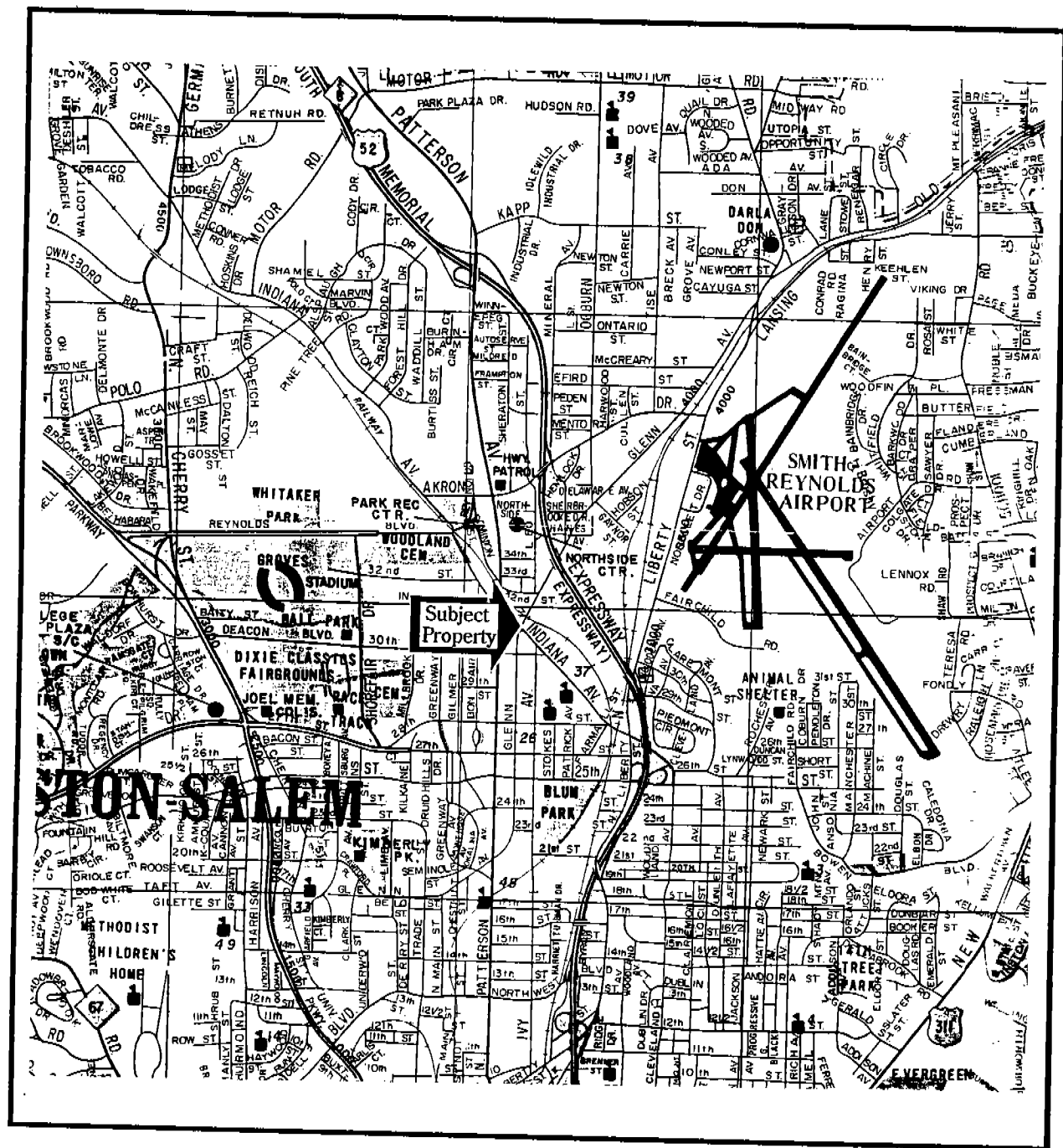
The tanks were removed from the site and transported to Safeway Tank Disposal for cleaning and dismantling for scrap. A copy of the tank disposal certificate is located in Appendix I.


Site Description

The site is located at 3045 Indiana Avenue in the northern portion of Winston-Salem, NC. Land use in the surrounding area is a mix of industrial, commercial and residential uses. Access to the property is via a driveway off Indiana Avenue just south of its intersection with Patterson Avenue. The site is essentially flat; a single story brick building near the entrance to the property serves as the office. The removed USTs were located behind the office building, between the office, the edge of the driveway, and a large oak tree located about 60 ft. from the office. The remainder of the property is a gravel lot that serves as a storage area for the firm's truck fleet. Across the driveway from the office is a large, metal building of older design; beyond this building to the north lies the right of way of Southern Railroad.

Soil Sampling and Soil Boring

Following removal of the four USTs, soil samples were collected from each excavation. For each soil sample, the sample collector donned a pair of clean, disposable vinyl gloves to minimize the potential for cross contamination. Because of the depths of the excavations, the sampler instructed






ENGINEERING TECTONICS, P.A.
 Winston-Salem, N.C (919) 724-6994

Martin Motor Lines	93-140 E
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Site Location Map

Feet



3000 0 3000

Drawn by: TPB	Approved by: SEM
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Figure 1

the equipment operator to collect a bucket of soil in specified locations of the excavation; samples were then collected from the backhoe bucket. Following collection, all samples were placed in 250 ml clean sample jars with teflon-lined polypropylene caps, sealed, and stored on "blue ice." Upon completion of sampling activities, the samples and the appropriate chain of custody document were transported to the laboratory of Engineering Tectonics, P.A. for preparation and analysis. Sample locations for the samples described below are noted on Figure 2.

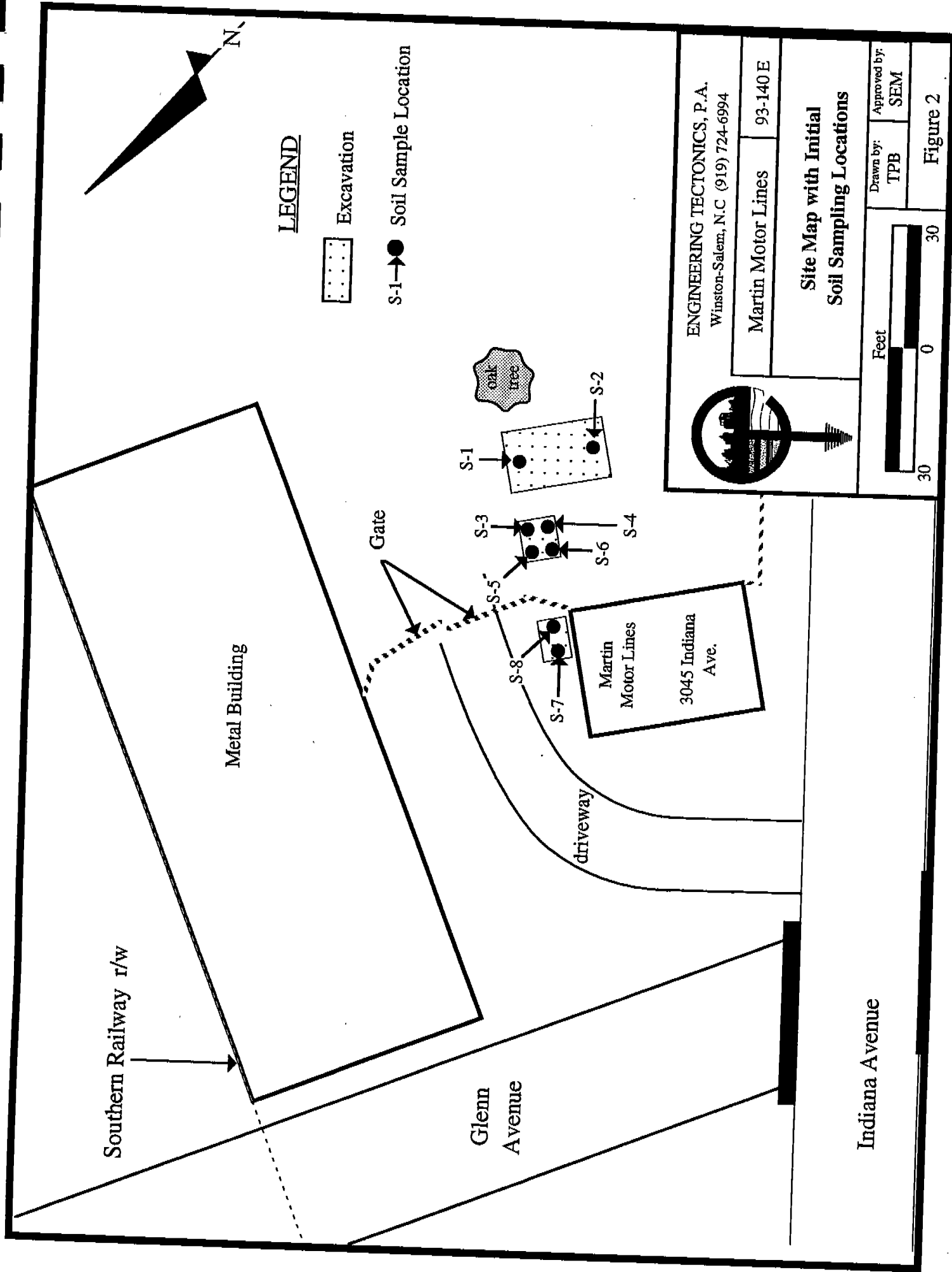
The excavation for removal of the 10,000 gallon tank was approximately 25 X 15 ft. Soil samples were taken approximately three ft. from each end of the excavation at an approximate depth of 16 ft. below ground surface. These samples were designated as S-1 and S-2.

Because the two 550 gallon USTs were located side by side, a single excavation of approximately 10 X 9 ft. was opened for the removal of these tanks. Samples were collected at each end of the excavation beneath the former locations of the tanks. Samples S-3 and S-4 were collected from beneath the southeasternmost of the two tanks, at depths of 6 and 8 ft., respectively. Samples S-5 and S-6 were collected at a depth of six ft. below the ground surface beneath the other 550 gallon tank (nearest the office building). A strong hydrocarbon odor was noted in this excavation.

The excavation for the removal of the 2,000 gallon diesel tank was approximately 11 X 7 ft. in size. One soil sample was collected from each end of the excavation, beneath the former location of the tank, at depths of about eight ft. No odor was noted in this excavation.

The top two ft. of cover at the site was soil; below two ft., the excavations were characterized by a mix of light brown to red micaceous silt and weathered rock of gneissic fabric. Following completion of soil sampling, the excavations were backfilled with clean fill material. Although the excavation from which the two 500 gallon tanks were removed appeared contaminated, the excavation was filled as a safety precaution: This hole was located just outside the entrance door for the office of Martin Motor Lines. Visual inspection of the tanks by M&M personnel revealed no apparent holes; it was speculated that the release had occurred from along the supply line running along the east side of the tank battery to a former pump island located at the southeast corner of the building.

In order to determine the vertical extent of contamination arising from an apparent release in the excavation from the two smaller gasoline tanks, Engineering Tectonics, P.A. mobilized a B-47 truck mounted drill rig to the site on January 26, 1993. A soil boring was advanced from the base of the excavation to a depth of 15 ft. below the ground surface. The borehole was advanced via 6"



hollow stem augers. Soil samples were collected at 10, 15 and 20 ft. below the surface by means of a split barrel sampling device in general accordance with ASTM D-1586. In this procedure, a 2" ID, 1 3/8" OD, split-barrel sampler is driven into the soils a distance of 18 inches by means of a 140 pound hammer falling 30 inches. Following retrieval of the hammer and sampler, the barrel is split and the sample removed by hand. During the sample collection phase, the sampler wore clean disposable vinyl gloves to prevent cross contamination. The soil sample from 15 ft. was selected for analysis. The sample was placed in a 250 ml clean sample jar with teflon-lined polypropylene caps, sealed, and stored on "blue ice." Upon completion of sample collection, the sample and the appropriate chain of custody document were transported to the laboratory of Engineering Tectonics, P.A. for preparation and analysis. The location of the soil boring is noted on Figure 3.

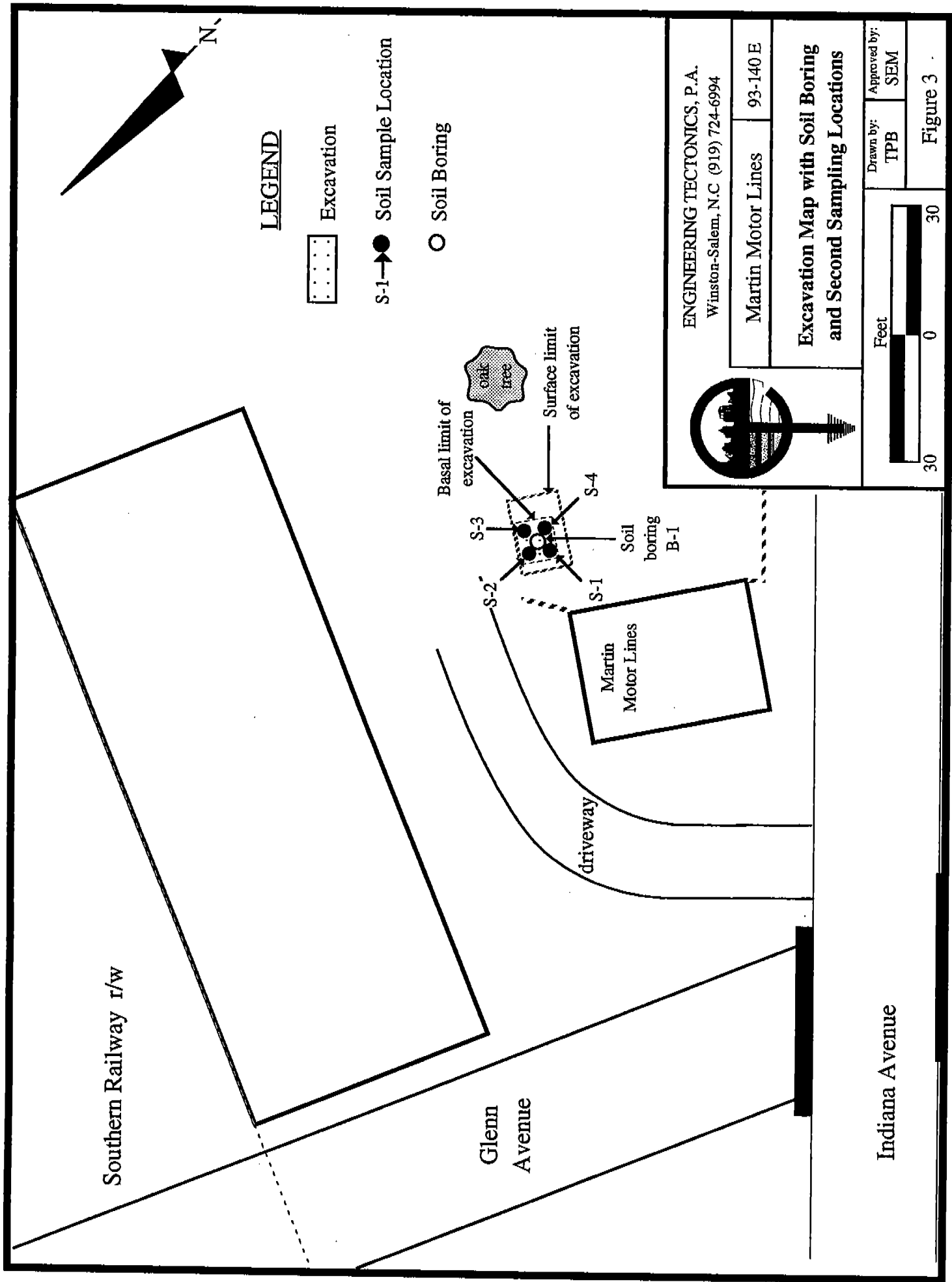
Laboratory Results: Initial Samples and Soil Boring

Soils samples collected beneath the 10,000 gasoline tank and the 550 gallon gasoline tanks, as well as the sample collected in the single soil boring, were analyzed by EPA Method 5030 and reported as Total Petroleum Hydrocarbons in parts per million (ppm). Samples collected in diesel fuel excavation were analyzed by EPA Methods 3550 and 5030 and reported as Total Petroleum Hydrocarbons in parts per million. The following Table illustrates the results of these analyses:

Table 1
Soil Sample Analyses: Original Samples and Soil Boring

Sample #	Location	Depth (ft.)	TPH 5030 (ppm)	TPH 3550 (ppm)
S-1	10,000 gal exc	16	<10	-
S-2	10,000 gal exc	16	<10	-
S-3	550 gal exc	6	1598	-
S-4	550 gal exc	8	538	-
S-5	550 gal exc	6	3210	-
S-6	550 gal exc	6	20972	-
S-7	2,000 gal exc	8	<10	<10
S-8	2,000 gal exc	8	<10	<10
B-1/S-2 (boring)	550 gal exc	15	<10	-

Laboratory reports and chain of custody documents for the first excavation samples and the soil boring sample are included in Apeendix II.



Removal of Contaminated Soils

Following confirmation of contamination, M&M mobilized equipment to the site to proceed with removal of contaminated soils from the excavation in which the two 550 gallon tanks had been located. A representative of Engineering Tectonics, P.A. was on site to monitor the excavation and collect soil samples. Based on apparent hydrocarbon odors, the excavation was extended to a depth of approximately 15 ft. at its northwest corner, and 12 to 14 ft over the remainder of the area underlying the former tanks. At the surface, the excavation was approximately 12 X 20 ft., with the deepest part of the excavation on the north end. The south end of the excavation was opened only to allow a surface against which to drag the trackhoe bucket.

Four soil samples were collected below the locations of samples S-3 through S-6 in the original excavation. New samples S-1, S-2, S-3 and S-4 were collected at depths of 12, 15, 14 and 13 ft. below surface grade, respectively. During sample collection, the sampler wore clean disposable vinyl gloves to prevent cross contamination. The soil sample was placed in a 250 ml clean sample jar with teflon-lined polypropylene caps, sealed, and stored on "blue ice." Upon collection, the samples and the appropriate chain of custody document were transported to the laboratory of Engineering Tectonics, P.A. for preparation and analysis. The location of samples collected during removal of contaminated soils is shown on Figure 3.

The contaminated soils were designated for transport to Terra-Dyne, a soil bioremediation facility located in Fayetteville, NC. On the day of contaminated soil removal, three trucks with an approximate capacity of 18 cubic yards each were loaded and transported to this facility. The remaining soils were stockpiled on the site for transport the following day. A total of 132.72 tons of soil (~100 cubic yards) were removed and transported to Terra-Dyne. A copy of the soil disposal manifest is included in Appendix I.

Groundwater was not encountered during removal of contaminated soils. Although the depth to groundwater is unknown; the water table at a site approximately one mile south, which lies at a topographic elevation slightly below that at the subject property, was encountered at about 25 ft. below the surface.

Laboratory Results: Contaminated Soils Excavation

The four soil samples collected following removal of contaminated soils were returned to the laboratory of Engineering Tectoics, P.A for analysis by EPA method 5030. Results were reported

as Total Petroleum Hydrocarbons in ppm. All samples fell below the detection limit of 10 ppm. Following confirmation that the soils tested below detection limits, the excavation was backfilled and compacted with clean fill materials.

Summary

Laboratory analyses of soils samples collected during the excavation of four USTs at the Martin Motor lines property indicated a potential release of gasoline from one or two 550 gallon gasoline tanks. A subsequent soil boring in the excavation from these tanks indicated that soils at a depth of 15 ft. below the surface had not been contaminated. Based on this data, contaminated soils were removed from the excavation, and four soils samples were collected from the base of the extended excavation, at depths ranging from 12 to 15 ft. below the ground surface. Based on these analyses, it appears that the source (contaminated soils) has been abated at the Martin Motors Lines site. Groundwater was not encountered during excavation.

Martin Motor Lines
Closure Report
February, 1993

APPENDIX I
Tank Closure Notification
Tank Disposal Certificate
Soil Disposal Manifests

Notice of Intent: UST Permanent Closure or Change-In-Service

FOR
TANKS
IN
NC

Return Completed Form To:
The appropriate DEM Regional Office according to the county of the facility's location. [SEE REVERSE SIDE OF OWNER'S COPY (BLUE) FOR REGIONAL OFFICE ADDRESS].

State Use Only
I. D. Number _____
Date Received _____

INSTRUCTIONS

Complete and return thirty (30) days prior to closure or change-in-service.

I. OWNERSHIP OF TANK(S)

Tank Owner Name: Martin Motor Lines, Inc.
(Corporation, Individual, Public Agency, or Other Entity)
Street Address: 3045 Indiana Ave.
County: Forsyth
City: Winston-Salem State: N.C. Zip Code: 27105
Tele. No. (Area Code): 919-723-1194

II. LOCATION OF TANK(S)

Facility Name or Company Martin Motor Lines, Inc.
Facility ID # (if available) 0-015481
Street Address or State Road: 3045 Indiana Ave.
County: Forsyth City: Winston-Salem Zip Code: 27105
Tele. No. (Area Code): 919-723-1194

III. CONTACT PERSON

Name: Paul Martin Job Title: President Telephone Number: (919)723-1194

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN-SERVICE

1. Contact Local Fire Marshall.
2. Plan the entire closure event.
3. Conduct Site Soil Assessments.
4. If Removing Tanks or Closing in Place refer to API Publications, 2015 "Cleaning Petroleum Storage Tanks" & 1604 "Removal & Disposal of Used Underground Petroleum Storage Tanks".
5. Provide a sketch locating piping, tanks and soil sampling locations.
6. Fill out form GW/UST-2 "Site Investigation Report for Permanent Closure" and return within 30 days following the site investigation.
7. Keep records for 3 years.

V. WORK TO BE PERFORMED BY:

(Contractor) Name: M+M Pump & Tank Service, Inc.
Address: 6260 Jennings Rd, Lewisville State: N.C. Zip Code: 27023
Contact: Richard E. McClure Phone: 919-945-3678

VI. TANK(S) SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

TANK ID#	TANK CAPACITY	LAST CONTENTS	PROPOSED ACTIVITY		
			CLOSURE		CHANGE-IN-SERVICE
			Removal	Abandonment in Place	New Contents Stored
<u>1</u>	<u>10,000</u>	<u>gasoline</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>All Tanks</u>
<u>2</u>	<u>2,000</u>	<u>diesel</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>have been</u>
<u>3</u>	<u>550</u>	<u>unknown</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Temporary</u>
<u>4</u>	<u>550</u>	<u>unknown</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Closed-bottom</u>
			<input type="checkbox"/>	<input type="checkbox"/>	<u>gum pad</u>
			<input type="checkbox"/>	<input type="checkbox"/>	<u>12-17-92</u>
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	

These tanks are schedule for removal
on 1-11-93 - this is Amendment to notice sent for
removal sent on 12-9-92

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Print name and official title

Paul Martin - M+M Pump & Tank

*Scheduled Removal Date: 1-11-93

Signature: Richard E. McClure

Date Submitted: 12-18-92

If scheduled work date changes, notify your appropriate DEM Regional Office 48 hours prior to originally scheduled date.

Notice of Intent to Permanently Close Underground Storage Tank(s)

North Carolina - Department of Environment, Health, & Natural Resources
Division of Environmental Management - Groundwater Section - U.S.T.
P.O. Box 27687
Raleigh, NC 27611
(919) 733-8303

State Use Only
I.D. Number _____
Date Received _____

INSTRUCTIONS

Please complete and return thirty (30) days prior to permanently closing tank(s).

I. OWNERSHIP OF TANK(S)

II. LOCATION OF TANK(S)

Tank Owner Name: Martin Motor Lines, Inc. Facility Name or Company: Martin Motor Lines
(Corporation, Individual, Public Agency, or Other Entry)
Street Address: 3045 Indiana Ave Winston-Salem, N.C. Street Address or State Road: 3045 Indiana Ave
County: Forsyth County County: Forsyth
City: Winston-Salem State: N.C. Zip Code: 27105 City: Winston-Salem State: N.C. Zip Code: 27105
Telephone Number (Area Code): 919-723-1194 Telephone Number (Area Code): 919-723-1194

Contact Person

Name: Paul Martin Job Title: President Telephone Number: (919) 723-1194

TANK REMOVAL OR CLOSURE IN PLACE

1. Contact Local Fire Marshall.
2. Plan the Closure Event.
3. Make Site Soil Assessments.
4. Remove Tanks or Close in Place in a Safe and Secure Manner Per API Pubs. "2015 Cleaning" and "1604 Removal & Disposal".
5. Provide a sketch Locating Tanks and Soil Tests.
6. Keep Records for 3 Years.

TANK(S) CLOSURE OPERATIONS TO BE PERFORMED BY:

(Contractor) Name: M + M Pump & Tank Service, Inc.
Address: 6260 Jennings Rd. Lewisville State: N.C. Zip Code: 27023
Contact: Richard E. McClure Phone: 445-3628

TANK(S) SCHEDULED FOR CLOSURE OR TO BE CLOSED

TANK NUMBER	TANK ID #	TANK CAPACITY	LAST CONTENTS	CLOSURE METHOD
Tank 1	1	10,000	gasoline	Remove <input checked="" type="checkbox"/> Close in Ground <input type="checkbox"/>
Tank 2	2	2,000	diesel	Remove <input type="checkbox"/> Close in Ground <input type="checkbox"/>
Tank 3	3	550	not used for last 25 yrs	Remove <input type="checkbox"/> Close in Ground <input type="checkbox"/>
Tank 4	4	550	unknown	Remove <input type="checkbox"/> Close in Ground <input type="checkbox"/>
Tank 5				Remove <input type="checkbox"/> Close in Ground <input type="checkbox"/>
Tank 6				Remove <input type="checkbox"/> Close in Ground <input type="checkbox"/>
Tank 7				Remove <input type="checkbox"/> Close in Ground <input type="checkbox"/>
Tank 8				Remove <input type="checkbox"/> Close in Ground <input type="checkbox"/>
Tank 9				Remove <input type="checkbox"/> Close in Ground <input type="checkbox"/>

Name and Official title of Owner's Authorized Representative

Paul Martin - M + M Pump & Tank

*Scheduled Removal Date: 1-11-93

Signature: Richard E. McClure

Date Submitted: 12-9-92

*If scheduled removal date changes, Forty-eight hours verbal notice of tank removal is required.

BW/UST-3

White Copy - Owner

Blue Copy - Central Office

Yellow Copy - Regional Office

Pink Copy - Central Files

Safeway Tank Disposal, Inc.

Page 1 of 1

CERTIFICATE OF TANK DISPOSAL

Customer

M+M Pump & Tank
6260 Jennings Rd.
Lewisville, NC 27023

Date Feb. 4, 1993

Transported by: m+m

Tank Disposal Number	Size	Weight	Product	Residue Amount	Origin
6768	10,000	7415#	GASOLINE	40 gals.	Martin Motor Lines Winston Salem, NC
6769	2,000	1820#	D. Fuel	52 gals.	↓
6770	550	450#	GASOLINE	6 gals.	
6771	550	450#	GASOLINE	10 gals.	
Total Residue				108 gals.	

Tanks were disposed in accordance with API 1604, 1987 Removal and Disposal of Used Underground Petroleum Storage Tanks. Residue was disposed in accordance with U.S. EPA Regulations by licensed subcontractor. Lead free scrap steel was recycled by United Metal Recyclers on 1/22/93 + 2/2/93.

Bruce D. G.
SAFeway TANK DISPOSAL, INC.



Martin Motor Lines
ATTN: Paul F. Martin
3045 Indiana Avenue
Winston-Salem, NC 27105

Itemized Invoice
January 29, 1993
Job No. 930004-002
Invoice No. 930017-01

RE: GASOLINE CONTAMINATED SOIL
MARTIN MOTOR LINES, 3045 INDIANA AVENUE,
WINSTON-SALEM, NORTH CAROLINA

<u>Load #</u>	<u>Weight</u>
01	41,060
02	55,160
03	44,700
04	43,560
05	34,440
06	46,520
TOTAL	265,440
	(or 132.72 tons)

<u>Remediation</u>	x	<u>Tonnage</u>	=	<u>Amount Due</u>
\$ 18.00		132.72		\$ 2,388.96

Terms: 3%/10days

Amount Due if payment is received in our office NLT
February 15, 1993--\$ 2,317.29

Thank you!
Have a nice day!
Sandy

Paid
2-3-93
cke 32447

818 Ann Street
Fayetteville, NC 28301
Phone: (919) 486-4285/Fax: (919) 486-0200

TERRADYNE ENVIRONMENTAL SERVICES, INC.
818 Ann Street Fayetteville, NC 28301
919/486-4285 / FAX 919/486-0200

NON-HAZARDOUS WASTE MANIFEST

TERRADYNE JOB # 930004-002

LOAD # 01 (number sequentially as trucks are dispatched)

ENVR CONSULTANT: M & M Environmental
Lewisville, NC

CONTACT: _____
PHONE: _____

GENERATOR: Martin Motor Lines
3045 Indiana Avenue
Winston-Salem, NC

CONTACT: Richard McClure
PHONE: 919-945-3678

TRANSPORTER: Thomas & Chester
P.O. Box 2789
Sanford, NC 27331-2789

CONTACT: Francis Chester
PHONE: 919-776-8800

DESTINATION: TERRADYNE ENVIRONMENTAL SERVICES
Facility 818 Ann Street
Fayetteville, NC 28301

CONTACT: TERRADYNE ENVIRON. SERVICES
PHONE: 919/486-4285
919/486-0200 (FAX)

WASTE DESCRIPTION: NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL

WASTE ORIGINATION POINT (COMPLETE ADDRESS): Martin Motor Lines, 3045 Indiana Avenue,
Winston-Salem, NC

TRUCK # DT 44

GROSS WEIGHT: 69840
TARE WEIGHT: 28780
NET WEIGHT: 41060

GENERATOR'S CERTIFICATION:

I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

PRINTED/TYPED NAME, TITLE

SIGNATURE

DATE

Paul F. Martin President 1-28-93

TRUCK DRIVER'S SIGNATURE (acknowledgement of receipt of material): Edna

Date: 1-2-93

NOTED DISCREPANCIES: _____

INSPECTED & ACCEPTED (except as noted above) BY: TERRADYNE ENVIRON. SERVICES

SIGNED BY: [Signature]

DATE: 1-2-93

TRUCKS MUST HAVE (1) THIS MANIFEST AND (2) WEIGHT TICKET
TRUCKERS MUST KNOW TARE WEIGHT

ORIGINAL: Terradyne Office
COPY: Generator
COPY: Transport
COPY: Facility Receipt

TERRADYNE ENVIRONMENTAL SERVICES, INC.
818 Ann Street Fayetteville, NC 28301
919/486-4285 / FAX 919/486-0200

NON-HAZARDOUS WASTE MANIFEST

TERRADYNE JOB # 930004-002

LOAD # 02 (number sequentially as trucks are dispatched)

ENVR CONSULTANT: M & M Environmental
Lewisville, NC

CONTACT: _____
PHONE: _____

GENERATOR: Martin Motor Lines
3045 Indiana Avenue
Winston-Salem, NC

CONTACT: Richard McClure
PHONE: 919-945-3678

TRANSPORTER: Thomas & Chester
P.O. Box 2789
Sanford, NC 27331-2789

CONTACT: Francis Chester
PHONE: 919-776-8800

DESTINATION: TERRADYNE ENVIRONMENTAL SERVICES
Facility 818 Ann Street
Fayetteville, NC 28301

CONTACT: TERRADYNE ENVIRON. SERVICES
PHONE: 919/486-4285
919/486-0200 (FAX)

WASTE DESCRIPTION: NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL

WASTE ORIGATION POINT (COMPLETE ADDRESS): Martin Motor Lines, 3045 Indiana Avenue,
Winston-Salem, NC

TRUCK # #05

GROSS WEIGHT: 8660
TARE WEIGHT: 31480
NET WEIGHT: 55160

GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

PRINTED/TYPED NAME, TITLE

SIGNATURE

DATE

Paul S. Martin President 1-28-93

TRUCK DRIVER'S SIGNATURE (acknowledgement of receipt of material):

Thomas
Date: 1-28-93

NOTED DISCREPANCIES: _____

INSPECTED & ACCEPTED (except as noted above) BY: TERRADYNE ENVIRON. SERVICES

SIGNED BY: R. [Signature]

DATE: 1/28/93

TRUCKS MUST HAVE (1) THIS MANIFEST AND (2) WEIGHT TICKET
TRUCKERS MUST KNOW TARE WEIGHT

ORIGINAL: Terradyne Office
COPY: Generator
COPY: Transport
COPY: Facility Receipt

TERRADYNE ENVIRONMENTAL SERVICES, INC.
818 Ann Street Fayetteville, NC 28301
919/486-4285 / FAX 919/486-0200

NON-HAZARDOUS WASTE MANIFEST

TERRADYNE JOB # 930004-002

LOAD # 03 (number sequentially as trucks are dispatched)

ENVR CONSULTANT: M & M Environmental
Lewisville, NC

CONTACT:
PHONE:

GENERATOR: Martin Motor Lines
3045 Indiana Avenue
Winston-Salem, NC

CONTACT: Richard McClure
PHONE: 919-945-3678

TRANSPORTER: Thomas & Chester
P.O. Box 2789
Sanford, NC 27331-2789

CONTACT: Francis Chester
PHONE: 919-776-8800

DESTINATION: TERRADYNE ENVIRONMENTAL SERVICES
Facility 818 Ann Street
Fayetteville, NC 28301

CONTACT: TERRADYNE ENVIRON. SERVICES
PHONE: 919/486-4285
919/486-0200 (FAX)

WASTE DESCRIPTION: NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL

WASTE ORIGATION POINT (COMPLETE ADDRESS): Martin Motor Lines, 3045 Indiana Avenue,
Winston-Salem, NC

TRUCK # DT 54

GROSS WEIGHT: 24000
TARE WEIGHT: 4400
NET WEIGHT:

GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

PRINTED/TYPED NAME, TITLE

SIGNATURE

DATE

Paul G. Martin President 1-28-93

TRUCK DRIVER'S SIGNATURE (acknowledgement of receipt of material):

Larry Ladd

Date: 1-28-93

NOTED DISCREPANCIES:

INSPECTED & ACCEPTED (except as noted above) BY: TERRADYNE ENVIRON. SERVICES

SIGNED BY:

DATE:

01/28/93

TRUCKS MUST HAVE (1) THIS MANIFEST AND (2) WEIGHT TICKET
TRUCKERS MUST KNOW TARE WEIGHT

ORIGINAL: Terradyne Office
COPY: Generator
COPY: Transport
COPY: Facility Receipt

TERRADYNE ENVIRONMENTAL SERVICES, INC.
818 Ann Street Fayetteville, NC 28301
919/486-4285 / FAX 919/486-0200
NON-HAZARDOUS WASTE MANIFEST

TERRADYNE JOB # 930004-002

LOAD # 04 (number sequentially as trucks are dispatched)

ENVR CONSULTANT: M & M Environmental
Lewisville, NC

CONTACT: _____
PHONE: _____

GENERATOR: Martin Motor Lines
3045 Indiana Avenue
Winston-Salem, NC

CONTACT: Richard McClure
PHONE: 919-945-3679

TRANSPORTER: Thomas & Chester
P.O. Box 2789
Sanford, NC 27331-2789

CONTACT: Francis Chester
PHONE: 919-776-8800

DESTINATION: TERRADYNE ENVIRONMENTAL SERVICES
Facility 818 Ann Street
Fayetteville, NC 28301

CONTACT: TERRADYNE ENVIRON. SERVICES
PHONE: 919/486-4285
919/486-0200 (FAX)

WASTE DESCRIPTION: NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL

WASTE ORIGATION POINT (COMPLETE ADDRESS): Martin Motor Lines, 3045 Indiana Avenue,
Winston-Salem, NC

TRUCK # 45

GROSS WEIGHT: 72580
TARE WEIGHT: 29070
NET WEIGHT: 43,510

GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

PRINTED/TYPED NAME, TITLE

SIGNATURE

DATE

Paul E. Martin President 1-29-93

TRUCK DRIVER'S SIGNATURE (acknowledgement of receipt of material): [Signature]
Date: 1-29-93

NOTED DISCREPANCIES: _____

INSPECTED & ACCEPTED (except as noted above) BY: TERRADYNE ENVIRON. SERVICES

SIGNED BY: [Signature]

DATE: 1/29/93

TRUCKS MUST HAVE (1) THIS MANIFEST AND (2) WEIGHT TICKET
TRUCKERS MUST KNOW TARE WEIGHT

ORIGINAL: Terradyne Office
COPY: Generator
COPY: Transport
COPY: Facility Receipt

TERRADYNE ENVIRONMENTAL SERVICES, INC.
818 Ann Street Fayetteville, NC 28301
919/486-4285 / FAX 919/486-0200

NON-HAZARDOUS WASTE MANIFEST

TERRADYNE JOB # 930004-002

LOAD # 05 (number sequentially as trucks are dispatched)

ENVR CONSULTANT: M & M Environmental
Lewisville, NC

CONTACT: _____
PHONE: _____

GENERATOR: Martin Motor Lines
3045 Indiana Avenue
Winston-Salem, NC

CONTACT: Richard McClure
PHONE: 919-245-3678

TRANSPORTER: Thomas & Chester
P.O. Box 2789
Sanford, NC 27331-2789

CONTACT: Francis Chester
PHONE: 919-776-8800

DESTINATION: TERRADYNE ENVIRONMENTAL SERVICES
Facility 818 Ann Street
Fayetteville, NC 28301

CONTACT: TERRADYNE ENVIRON. SERVICES
PHONE: 919/486-4285
919/486-0200 (FAX)

WASTE DESCRIPTION: NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL

WASTE ORIGATION POINT (COMPLETE ADDRESS): Martin Motor Lines, 3045 Indiana Avenue,
Winston-Salem, NC

TRUCK # 47

GROSS WEIGHT: 59,540
TARE WEIGHT: 25,100
NET WEIGHT: 34,440

GENERATOR'S CERTIFICATION:

I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

PRINTED/TYPED NAME, TITLE

SIGNATURE

DATE

Paul E. Martin, President 1-29-93

TRUCK DRIVER'S SIGNATURE (acknowledgement of receipt of material):

Frank Offner

Date: 1-29-93

NOTED DISCREPANCIES: _____

INSPECTED & ACCEPTED (except as noted above) BY: TERRADYNE ENVIRON. SERVICES

SIGNED BY: R. [Signature]

DATE: 1/29/93

TRUCKS MUST HAVE (1) THIS MANIFEST AND (2) WEIGHT TICKET
TRUCKERS MUST KNOW TARE WEIGHT

ORIGINAL: Terradyne Office

COPY: Generator

COPY: Transport

COPY: Facility Receipt

TERRADYNE ENVIRONMENTAL SERVICES, INC.
818 Ann Street Fayetteville, NC 28301
919/486-4285 / FAX 919/486-0200

NON-HAZARDOUS WASTE MANIFEST

TERRADYNE JOB # 930004-002

LOAD # 06

(number sequentially as trucks are dispatched)

ENVR CONSULTANT: M & M Environmental
Lewisville, NC

CONTACT: _____

PHONE: _____

GENERATOR: Martin Motor Lines
3045 Indiana Avenue
Winston-Salem, NC

CONTACT: Richard McClure

PHONE: 919-945-3678

TRANSPORTER: Thomas & Chester
P.O. Box 2789
Sanford, NC 27331-2789

CONTACT: Francis Chester

PHONE: 919-776-8800

DESTINATION: TERRADYNE ENVIRONMENTAL SERVICES
Facility 818 Ann Street
Fayetteville, NC 28301

CONTACT: TERRADYNE ENVIRON. SERVICES

PHONE: 919/486-4285

919/486-0200 (FAX)

WASTE DESCRIPTION: NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL

WASTE ORIGATION POINT (COMPLETE ADDRESS): Martin Motor Lines, 3045 Indiana Avenue,
Winston-Salem, NC

TRUCK # DT 411

GROSS WEIGHT: _____

TARE WEIGHT: _____

NET WEIGHT: _____

75160
28,640
46,520

GENERATOR'S CERTIFICATION:

I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

PRINTED/TYPED NAME, TITLE

SIGNATURE

DATE

Paul E. Martin President 1-18-93

TRUCK DRIVER'S SIGNATURE (acknowledgement of receipt of material): _____

Date: 1-29-93

NOTED DISCREPANCIES: _____

INSPECTED & ACCEPTED (except as noted above) BY: TERRADYNE ENVIRON. SERVICES

SIGNED BY: _____

DATE: 1-29-93

TRUCKS MUST HAVE (1) THIS MANIFEST AND (2) WEIGHT TICKET
TRUCKERS MUST KNOW TARE WEIGHT

ORIGINAL: Terradyne Office

COPY: Generator

COPY: Transport

COPY: Facility Receipt

APPENDIX II
Laboratory Reports and Chain of Custody Documents



ENGINEERING TECTONICS, P.A.

ENGINEERS • GEOLOGISTS • HYDROLOGISTS

P.O. Box 1, Winston-Salem, NC 27108 (919) 724-6994

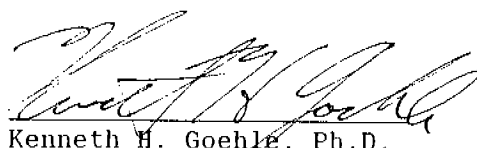
CERTIFICATE OF ANALYSIS

January 21, 1993

Client: M&M Tank
Project: Martin Motor Lines
ET Job#: 93-140-E

EPA 5030/8015;3550/8015: Volatiles/Semi-volatiles

Client Sample	Lab Sample	TPH(5030)	TPH(3550)
S-1	9300028	< 10 ppm	-----
S-2	9300029	< 10	-----
S-3	9300030	1598	-----
S-4	9300031	538	-----
S-5	9300032	3210	-----
S-6	9300033	20972	-----
S-7	9300034	< 10	< 10 ppm
S-8	9300035	< 10	< 10


Kenneth H. Goehle, Ph.D.

CHAIN OF CUSTODY RECORD

page 1 of 1

Use ballpoint pen only, press hard

ENGINEERING TECTONICS, P.A.

1720 Vargrave Street

P.O. Box I

Winston-Salem, NC 27107

Winston-Salem, NC 27108

Telephone (919) 724-6994 1-800-394-8807

Fax (919) 724-7095

Client Name: M+M TANK

Project: MARTIN MOTOR LINES

E. T. Job #: 93-140-E

Attention: _____

Telephone: _____

Please indicate the number of each size of sample container and any preservatives which were used. e.g., 2-HNO3 indicates 2 containers w/ nitric acid.										Suspected Contaminant		Level			Analysis Requested		Lab use only	
Sample ID	Yr. ⁴² Date	Time	Matrix	40 ml	120 ml	250 ml	500 ml	950 ml	other			0	Low	Med	High			Lab ID
S-1 S-1	1-18	2:00	OIL			1				GAS					✓	5030		0300028
S-2						1				GAS		✓				5030		27
S-3						1				GAS			✓			5030		
S-4						1				GAS			✓			5030		21
S-5						1				GAS			✓			5030		22
S-6						1				GAS			✓			5030		23
S-7						1				DIESEL	✓					3550/5030		4
S-8		3:30				1				DIESEL	✓					3550/5030		25
Relinquished by: (Sig.) <u>[Signature]</u> Collector										Time		Date		Remarks: PLEASE RUN S-1 + S-4 FIRST ASAP				
Relinquished by: (Sig.)										Time		Date						
Relinquished by: (Sig.)										Time		Date						



ENGINEERING TECTONICS, P.A.
ENGINEERS • GEOLOGISTS • HYDROLOGISTS

P.O. Box 1, Winston-Salem, NC 27108 (919) 724-6994

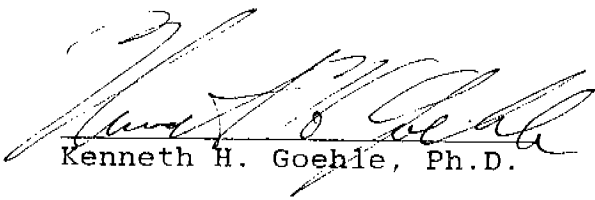
CERTIFICATE OF
ANALYSIS

January 27, 1993

Client: M&M Pump & Tank
Project: Martin Motor Lines
ET Job#: 93-140-E

EPA 5030/8015 TPH-GC; Gasoline

Client Sample	Lab Sample	TPH(5030)
B-1/S-2	9300049	< 10 ppm


Kenneth H. Goehle, Ph.D.

page ____ of ____

ENGINEERING TECTONICS, P.A.

P.O. Box I

Winston-Salem, NC 27107

Telephone (919) 724-6994 1-800-394-8807

Fax (919) 724-7095

Telephone:

[illegible]



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ENGINEERS • GEOLOGISTS • HYDROLOGISTS

P.O. Box 1, Winston-Salem, NC 27108 (919) 724-6994

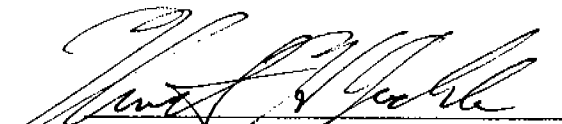
CERTIFICATE OF
ANALYSIS

January 29, 1993

Client: M&M Tank
Project: Martin Motor Lines
ET Job#: 93-1140-E

EPA 5030/8015 TPH-GC; Gasoline

Client Sample	Lab Sample	TPH(5030)
S-1	9300062	< 10 ppm
S-2	9300063	< 10
S-3	9300064	< 10
S-4	9300065	< 10


Kenneth H. Goehle, Ph.D.

page ____ of ____

ENGINEERING TECTONICS, P.A.

1720 Vargrave Street
P.O. Box I

Project: Martin Mike, Linn

Telephone (919) 724-6994 1-800-394-8807

Fax (919) 724-7095

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